







PCOR Partnership

Phase II Goals

- Increase public understanding of CO₂ sequestration
- Perform field validation tests that develop:
 - Monitoring, mitigation, and verification (MMV) protocols.
 - Regional sequestration strategies.
 - Best separation/source matches.
 - Regulatory and permitting strategies.
 - Environmental benefits and risks.
 - Information needed to monetize C credits.
- Continued regional characterization.
- Creating a vision for practical environmentally sound
 carbon management etratogies

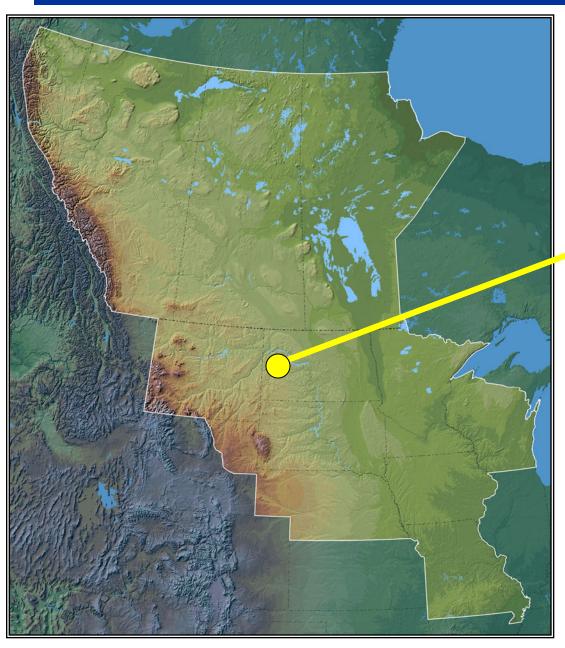
The PCOR Partnership involves more than 60 partners who represent public agencies, utilities, oil and gas companies, engineering firms, associations and nonprofit organizations, and universities.



PCOR Partnership Phase II – Regional Field Verification Activities



Williston Basin Oil Field





- CO₂ in a deep oil reservoir –
 CO₂ will be injected into an oil-bearing zone.
- We are currently finalizing plans with Hess Corporation for this summer's field-based activities.
- Sharing Eclipse models and expertise.

Zama Acid Gas EOR Project



- One of four Alberta demonstration projects to receive royalty credits for injecting CO₂ for enhanced oil recovery (EOR).
- Approach combines acid gas disposal and CO₂ EOR.
- Potential to expand to over 600 additional pinnacles.









Lignite Field Validation Test

- Determine the accuracy with which CO₂ storage capacity in lignite coal can be predicted.
- Develop data regarding the potential of CBM to be produced from lignite coal as a by-product of CO₂ injection.
- Demonstrate cost-effective MMV technologies and protocols for:
 - CO₂ sequestration.
 - Enhanced coalbed methane (CBM) in a lignite coal seam.

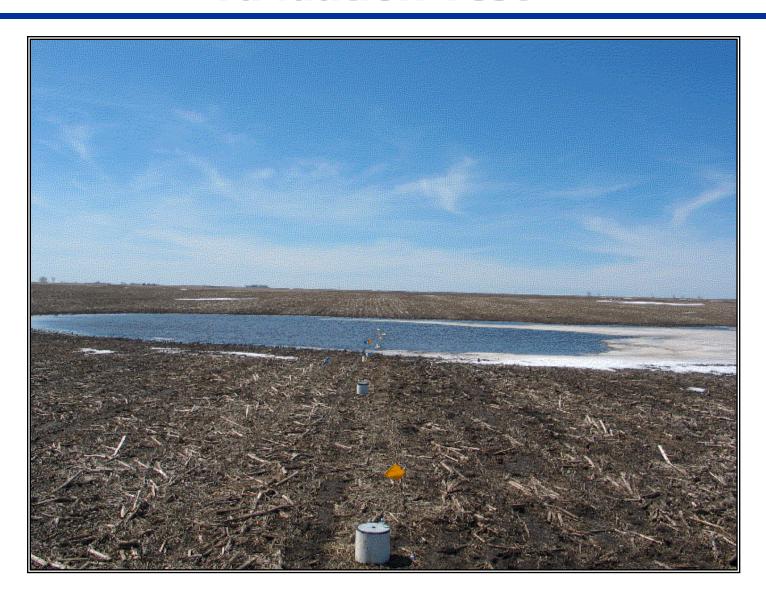






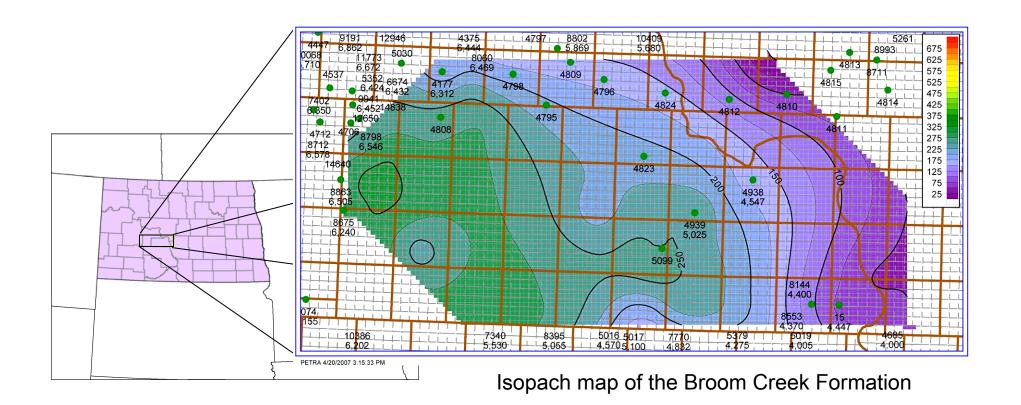


PCOR Partnership Wetland Field Validation Test



Focused Characterization Efforts

 More detailed evaluation of the CO₂ sequestration potential of saline formations in central North Dakota



Task 7 — Research Safety, Regulatory, and Permitting Issues

- Interstate Oil and Gas Compact Commission (IOGCC)
 - Carbon Capture and Geological Storage Regulatory Task Force
 - Developing model regulations dealing with site licensing, well operation, well/site closure, and long-term storage.
 - Legal Subgroup
 - Technical Subgroups
 - » Site Licensing and Well Operations
 - » Well/Site Closure and Long-Term Storage





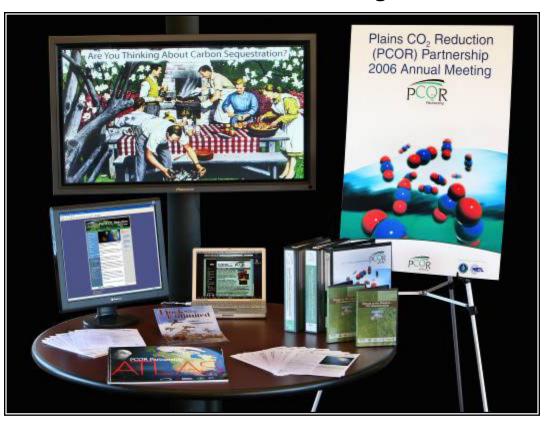




PCOR Partnership Deliverables

Deliverables in Phases I and II have included the following:

- Regional atlas
- Road map documents
- Fact sheets
- Topical reports
- Design packages
- Sampling protocols
- Outreach action plans
- Progress reports
- Site health and safety plans
- Video Documentaries
- Public and Private Web sites
- Regional characterization gap assessment
- National Environmental Policy Act (NEPA) compliance forms
- Regional permitting implementation outlines
- Project management plans
- Regulatory permitting action plans





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